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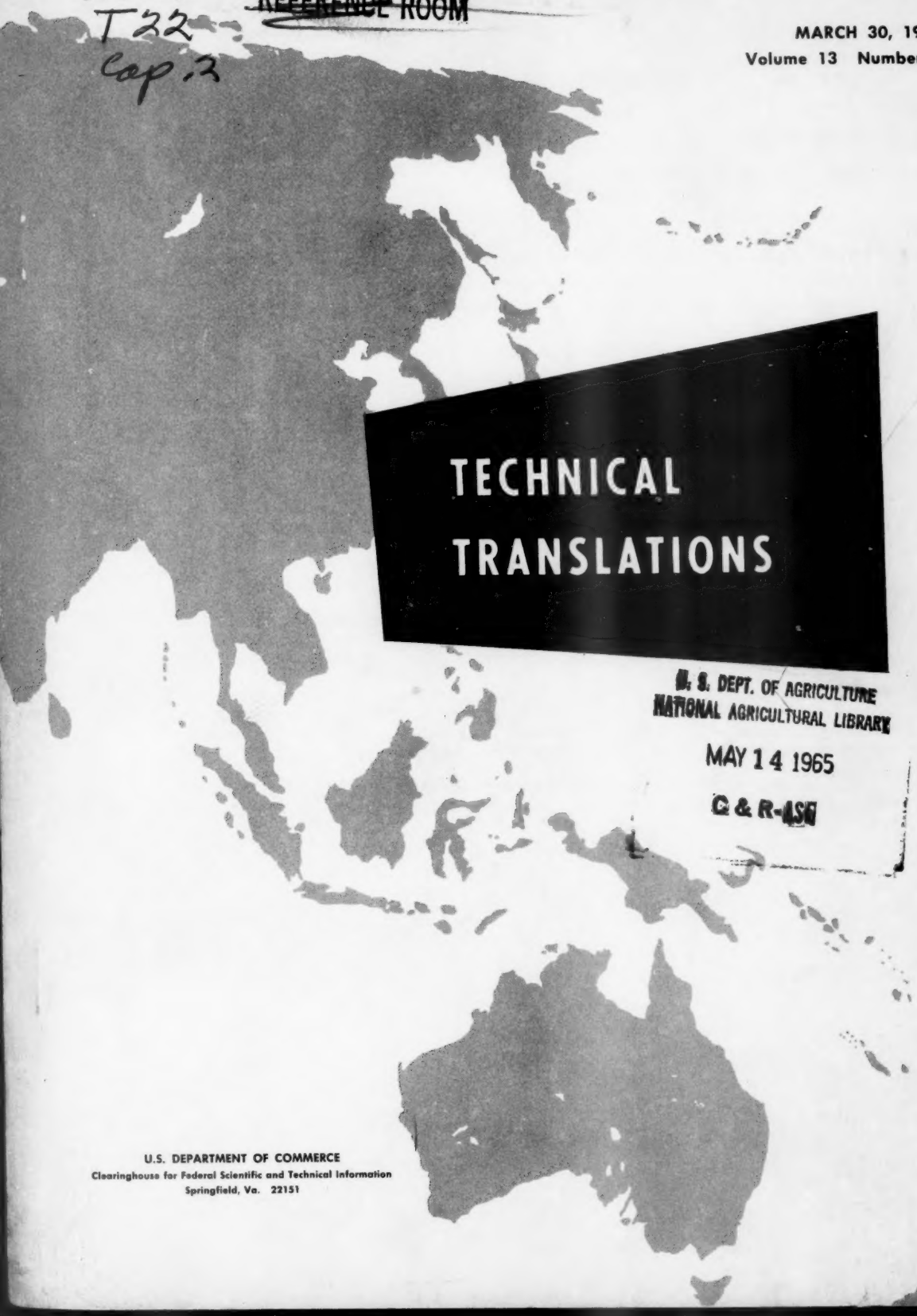

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TECHNICAL TRANSLATIONS

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Bernard M. Fry, Director

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HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subjects of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicated that the particular journal is also translated cover-to-cover.

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A. Capelo
P. O. Box 46354
Hollywood, California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145 19th Street, N. W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics & Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. & The Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Avenue
New York, New York 10003

ARS
American Rocket Society, Inc.
20th & Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron & Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises, Inc.
227 West 17th Street
New York, New York 10011

CBT
Centre Belge de Traductions
Bibliotheque Royale
4 Boulevard de l'Empereur
Brussels, Belgium

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CFSTI
Clearinghouse for Federal Scientific & Technical Information (Formerly Office of Technical Services)
Port Royal & Braddock Roads
Springfield, Virginia 22151
(Also available through Department of Commerce Field Offices)

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion,
Patronato Juan de la Cierva,
Serrano 150, Apartado 743
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIR
Council for Scientific and Industrial Research
The Head
Information Division
P. O. Box 395
Pretoria, Republic of South Africa

CSIRO
Commonwealth Scientific & Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D. C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

ETH
Eidgenossische Technische Hochschule
Zurich, Switzerland

ETHB
Eidgenossische Technische Hochschulbibliotek
Leonhardstrasse 33
Zurich, Switzerland

EURO-T. S.
Euro-Translation Service
20 Rue Europe
Grivegnée (Liège), Belgium

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire, England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P. O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. B. 569
London, S. E. 1, England

HTCBN
Hungarian Trading Company for Books & Newspapers "Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D. C. 20540

LNEC
Laboratorio Nacional de Engenharia Civil
Ministerio das Obras Publicas
Avenida do Brasil
Lisbon 5, Portugal

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MPIK
Max-Planck-Institut fur Kohlenforschung
Bibliothek der Abteilung Strahlenchemie Stiftstrasse 34-36
433 Mulheim and der Ruhr,
West Germany

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NLL
National Lending Library for Science and Technology
Boston Spa, Yorkshire, England

NRCC
National Research Council, Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
See CFSTI

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STC
Swedish Translation Centre
Kunglige Tekniske Hogskolans
Bibliotek
Stockholm, Sweden

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TC
Trans-Chem
Chemical Translation Service,
1216 Oakdale, S. E.
Knoxville, Tennessee 37914

TDL
Mr. John Wiley
Technical Development
Laboratories
P.O. Box 769
Savannah, Georgia 31400

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street,
London, E.C. 4, England

TIB
Technische
Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W.C. 2, England

TTIS
Translation and Technical
Information Services
32 Manaton Road
London, S.E. 15, England

UBO
Royal University Library
Drammensveien 42B
Oslo, Norway

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba
Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

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Volume 13, Number 6 | Pages 377 - 456 | March 30, 1965

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This index is a record of the publications in the Russian language issued in and outside the Soviet Union that are currently received by the Library of Congress and a group of cooperating libraries. Wherever possible, publications printed in other languages spoken in the Soviet Union are also included. It consists of three parts; Part A lists monographic literature published after 1944, with the title in the original language preceded by its English translation; Part B lists periodicals published after 1946; Part C constitutes a subject guide to both the monographs and periodical articles listed in Parts A and B.

AGRICULTURE

Aref'ev, E. V.
WINTERING MATED QUEENS IN 1-FRAME NUCLEI. Mar 64, 3p.
Order from OTS or ETC HC $1.00, MF $0.50
TT-65-60021

Trans. of Pchelovodstvo (USSR) 1947, v. 24, no. 6, p. 15-17.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Kovtun, F. N.
HOW TO MAKE AND USE MULTIPLE-QUEEN COLONIES. Mar 64, 2p.
Order from OTS or ETC HC $1.00, MF $0.50
TT-65-60084

Trans. of Pchelovodstvo (USSR) 1949, v. 26, no. 7, p. 29-30.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Animal Husbandry

Kovalenko, Ya. R., Burba, L. G., and Sidorov, M. A.
VIABILITY OF AFRICAN SWINE FEVER IN THE ENVIRONMENT (Sokhranyaemost Virusa Afrikanskoi Chumy Svinei vo Vneshnei Srede). 7 Dec 64, 6p 8refs
Trans. V-1978.
Order from OTS or ETC HC $1.00, MF $0.50
TT-65-60648

Trans. of Vestnik Sel'skokhozyaistvennoi Nauki (USSR) 1964, v. 9, no. 3, p. 62-65.

Levitskii, B. G., and Koniukhova, V. A.
TOXICITY OF FEEDS INFECTED WITH COMMON MOULDS.
V. Clarke, tr. 6p 1ref NLL M. 5174.
Available on loan from OTS TT-65-60791

Trans. of Veterinariya (USSR) 1947, v. 24, no. 10, p. 40-43.

Serov, M. F., and Biryukov, D. Ya.
ALL-UNION CONFERENCE ON VETERINARY VIROLOGY (NO. 1) [MOSCOW, 18-22 FEB 64]
23 Sep 64 [10p] JPRS: 26518.
Order from OTS or ETC HC $1.00, MF $0.50
TT-64-41776

Trans. of Veterinariya (USSR) 1964 [v. 41] no. 5, p. 123-126.

Stepanova, N. and Malakhov, A.
AN IMPROVED METHOD OF PREPARING ANAPLASMOSIS ANTIGEN. (Usovershentsvovannyi Metod Prigotovleniya Anaplazmoznogo Antigena)
B. Ribush, tr. [8p] (foreign text included) 2refs
[CSIRO] Trans. no. 6910.
Order from OTS or ETC HC $1.00, MF $0.50
TT-64-23583

Trans. of Vsesoyuznyi Institut Eksperimental'noi Veterinarii. Trudy (USSR) 1963, v. 28, p. 215-218.

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Wertejuk, Mieczysław.
INFLUENCE OF ENVIRONMENTAL CONDITIONS ON THE INFECTIVE LARVAE OF GASTROINTESTINAL NEMATODES OF SHEEP (Wplyw Warunkow Srodowiskowych na Larwy Inwazyjne Zoladkowo-Jelitowych Nicieni Owiec) W. Slusarski, tr. 1964 [27p] 35refs SFCSI Agr.
Order from OTS or ETC HC $2.00 TT-61-31290

Trans. of Acta Parasitiologica Polonica, 1959, v. 7, no. 15, p. 315-342.

Plant Cultivation

Bolotskii, Yu. S.
METHODS OF FRUIT TREE SEED PREPARATION FOR SOWING (O Sposobakh Podgotovki Semyan Plodovykh Kul'tur k Posevu)
B. Bergmanis, tr. [8p] (foreign text included) [CSIRO] Trans. no. 7006.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-23581

Trans. of Sadovodstvo (USSR) 1960 [v. 98] no. 10, p. 37-39.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Brückner, Hans and Härtel, Kurt.
PROCESS FOR THE TREATMENT OF SEED AND LIVING PLANTS. 5p 1ref.
Order from SLA $1.10 TT-65-10911

Trans. of German patent 1,058,302, appl. no. A 21,881 IVa/451 by Farbwerke Höchst A. G., filed 10 Jan 55, laid out for public inspection 27 May 59.

Brückner, Hans and Härtel, Kurt.
PROCESS FOR THE TREATMENT OF SUBSTRATES INFECTED WITH FUNGUS OR BACTERIA, ESPECIALLY SEED AND LIVING PLANTS. 5p 4refs.
Order from SLA $1.10 TT-65-10919

Trans. of German patent 1,025,198, appl. no. A 18340 IVa/45 1, by Farbwerke Höchst A. G., filed 3 July 53, laid out for public inspection 27 Feb 58.

Filippenko, I. M.
DYNAMICS OF THE DRY MATTER CONTENT IN VINE SHOOTS AFTER SUMMER PRUNING (Dinamika Sukhikh Veshchestv v Pobegakh Vinograda Posle Zelenykh Operatsii)
J. Hardy, tr. [8p] (foreign text included) [CSIRO] Trans. no. 5673.
Order from OTS or ETC HC $1.00, MF $0.50 TT-65-60917

Trans. of [Tsentral'naya] Genet[icheskaya] Lab[oratoriya]. Byull[eten'] (USSR) 1957, no. 3, p. 35-37.

Legibility of this document is in part unsatisfactory. Reproduction has been made from best available copy.

Harmsen, G. W.
STATE AND ACHIEVEMENTS OF AGRICULTURAL-CHEMICAL AND AGROBIOLOGICAL RESEARCH. VIII. INFLUENCE OF WEATHER, FERTILIZING AND VEGETATION ON THE NITROGEN CONTENT OF SOIL. 22p (all refs omitted)
Order from SLA $2.60 TT-65-10458

Trans. of Landwirtschaftliche Forschung. (West Germany) 1961, no. 15, [sonderheft] p. 61-74.

Harmsen, G. W.
WHAT CAN WE LEARN FROM THE DETERMINATION OF SOLUBLE NITROGEN IN THE SOIL? 8p.
Order from SLA $1.10 TT-65-10472

Trans. of Zeitschrift für Pflanzenernährung, Düngung, Bodenkunde (West Germany) 1959, v. 84, no. 1/3, p. 98-102.

Kibalenko, A. P.
THE PHYSIOLOGICAL ROLE OF BORON AND ITS INFLUENCE ON THE PRODUCTIVITY AND QUALITY OF TOBACCO. [8p].
Available on loan from SLA TT-65-10904

Trans. of Tabak (USSR) 1963, v. 24, no. 4, p. 37-40.

Nesterov, V. G. and Antrokhin, V. G.
FILTRATION AS A METHOD FOR STUDYING LIGHTING CONDITIONS IN OAK GROVES AND SOME DATA AS TO ITS UTILIZATION (Fil'tratsionnyi Metod Izucheniya Svetovogo Rezhima Dubovykh Nasazhdenii i Nekotorye Dannye Ego Primeneniya)
J. A. Collins, tr. [8p] (foreign text included) [CSIRO] Trans. no. 7054.
Order from OTS or ETC HC $1.00, MF $0.50 TT-65-60677

Trans. of Moskovskaya Sel'skokhozyaistvennaya Akademiya. Doklady (USSR) 1958, v. 36, p. 161-164.

Pao, Wen-k'uei.
POLYPLOIDS OF DIFFERENT SPECIES AND HYBRIDIZATION BETWEEN REMOTELY-RELATED SPECIES. 3 Nov 64 [12p] JPRS: 27208.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-51463

Trans. of Chung Kuo Nung Yeh K'o Hsüeh (Chinese People's Republic) 1962, no. 11, p. 7-14.

Rubenchik, L. I.
BACTERIAL FERTILIZERS (Bakterial'nye Udobreniya)
B. Ribush, tr. [30p] (foreign text included) 91refs [CSIRO] Trans no. 5542.
Order from OTS or ETC HC $2.00, MF $0.50 TT-65-60681

Trans. of Mikrobiologiya (USSR) 1956, v. 25, no. 2, p. 231-242.
Another trans. is available from OTS or SLA $2.60 as TT-63-16125, 28p.

ASTRONOMY

Shklovskii, I.S.
L'ASTRONOMIE DANS 20^ANS. Org.140-1085-164.
Order from CNRS G/R-3588

Trans. in French of Nauka i Zhizn' (USSR) 1963, v.30, no.9, p.55-60.

Astrophysics

Baade, W. and Pauli, W., Jr.
ON THE RADIATION PRESSURE ACTING UPON THE PARTICLES IN COMET TAILS. [7p] 3refs
Order from SLA $1.10 TT-65-10818

Trans. of die Naturwissenschaften (Germany) 1927, v. 15, no. 1, p. 49-51.

Chernikov, A. A.
SEVERAL PROPERTIES OF THERMICS AS REFLECTORS OF OBJECTS. [18p] 3refs
Order from SLA $1.60 TT-65-10800

Trans. of #Tsentral'naya Aerologicheskaya Observatoriya. Trudy, (USSR) 1961, no. 36, p. 126-136.

Grasyuk, A. Z., Zuyev, V. S., Kokorin, Y. L., Kryukov, P. G., and Kurbasov, V. V.
LASER STUDY OF THE MOON. Paper [presented] at the Joint Colloquium of the Oscillation Laboratory and the Laboratory for Quantum Radio-Physics of the P. N. Lebedev Physics Institute, 28 Sep 63. [7p] 2refs.
Order from SLA $1.10 TT-65-10778

Trans. of A[kademiya] N[auk] SSSR. Doklady, 1964, v. 154, no. 6, p. 1303-1305.

Kalachev, P. D.
ON DESIGN POSSIBILITIES FOR CREATING THE RIGID ANTENNA FOR A PARABOLIC REFLECTOR OF GREAT DIMENSIONS. 29 Dec 64 [16p] 8refs FTD-TT-64-597
Order from OTS or ETC HC $1.00, MF $0.50 AD-610 352

Unedited rough draft trans. Izvestiya Vysshikh Uchebnykh Zavedenii. Mashinostroenie (USSR) 1963, no. 12, p. 49-58.

Kaplan, S. A. and Ostrovskii, L. A.
ON THE THEORY OF FORMATION OF SHOCK WAVES IN THE CHROMOSPHERE AND IN THE CORONA. 6 Jan 65 [10p] 9refs FTD-TT-64-839.
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FOOD, HANDLING, AND PACKAGING EQUIPMENT

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Hergert, Margarete.
SPRINKLING DEVICE
J. B., tr. 13 Oct 64, 3p.
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Krupp, Fried.
ROTARY APPARATUS FOR DRILLING GALLERIES AND, PARTICULARLY, SHAFTS,
L. H., tr. 18 Sep 64, 5p.
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J. B., tr. 19 Oct 64, 6p.
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BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE

(Byulleten' Eksperimental'noi Biologii i Meditsiny)

1964, VOL. 57, NO. 8

RECENT WORKS ON "SKIN VISION," THE CENTRAL NERVOUS SYSTEM, AND RADIATION SICKNESS

- USSR -

[Following is a translation of articles in the Russian-language journal Byulleten' Eksperimental'noy Biologii i Meditsiny (Bulletin of Experimental Biology and Medicine), Moscow, Vol XXIX, No 8, 1964. Additional bibliographic information accompanies each article.]

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(Klinicheskaya Meditsina)
1964, VOL. 42, NO. 5

STUDIES IN CLINICAL MEDICINE

- USSR -

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(Vychislitel'naya Matematika i Tekhnika)

KIEV, 1962

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(Gigiena i Sanitariya)

1964, VOL. 29, NO. 8

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(Hygiene and Sanitation), No 8, 1964

- USSR -

Following is a translation of eleven articles in the Russian-language periodical Gigiyena i sanitariya (Hygiene and Sanitation), Vol XXIX, No 8, Moscow, August 1964. Complete bibliographic information accompanies each article.

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(Meditsinskaya Radiologiya)

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- USSR -

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1964, NO. 9

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1964, VOL. 27, NO. 2

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- USSR -

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Printed in Poland (PWN – DUAM)

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Printed in Poland (PWN – DUAM)

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Printed in Poland (PWN – DUAM)

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Printed in Poland (PWN – DUAM)

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Printed in Poland (PWN—DUAM)

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Printed in Poland (PWN—DUAM)

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(Voprosy Radiobiologii. Sbornik Trudov)

1964, VOL. 3/4

RESEARCH IN RADIOBIOLOGY

- USSR -

Following is the translation of fourteen articles in the Russian-language periodical Voprosy radiobiologii, Sbornik trudov (Problems of Radiobiology, A Collection of Works), Radiobiology Sector of the Academy of Sciences Armenian SSR, Yerevan, Vol. III-IV, 1963, edited by A. S. Shaverdyan. Names of authors and source pages accompany each article.

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(Akademiya Nauk URSR, Kiev. Dopovidi)

1964, NO. 5

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- USSR -

Following is a translation of six articles in the Ukrainian-language periodical Dopovidi Akademii nauk Ukrains'koi RSR (Reports of the Academy of Sciences Ukrainian SSR), No 5, Kiev, 1964. Complete bibliographic information accompanies each article.

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(Russian Original Vol. 34, No. 3, pp. 385-576, March, 1964)

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A Translation of the "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 34, No. 4, pp. 577-768, April, 1964)

Vol. 9, No. 4, pp. 449-590 October, 1964

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TECHNICAL PHYSICS

A Translation of the "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 34, No. 5, pp. 769-951, May, 1964)

Vol. 9, No. 5, pp. 591-736 November, 1964

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A Translation of the "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 34, No. 6, pp. 953-1138, June, 1964)

Vol. 9, No. 6, pp. 737-888 December, 1964

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SOVIET PUBLIC HEALTH STUDIES

(Sovetskoe Zdravookhranenie)
1964, VOL. 23, NO. 8
SOVIET PUBLIC HEALTH STUDIES

[Following is translation of selections from the Russian-language periodical Sovetskoye Zdravookhraneniye (English version above). Additional bibliographic information accompanies each selection.]

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THEORY AND PRACTICE OF PHYSICAL CULTURE

(Teoriya i Praktika Fizicheskoi Kul'tury)

1964, VOL. 27, NO. 6

STUDIES IN THE THEORY AND PRACTICE OF PHYSICAL CULTURE

[Following is a translation of five articles in the Russian-language journal Teoriya i Praktika Fizicheskoy Kul'tury (Theory and Practice of Physical Culture), Moscow, No 6, June 1964, pp 1-9, 9-14, 45-49, 57-61, and 67-70.]

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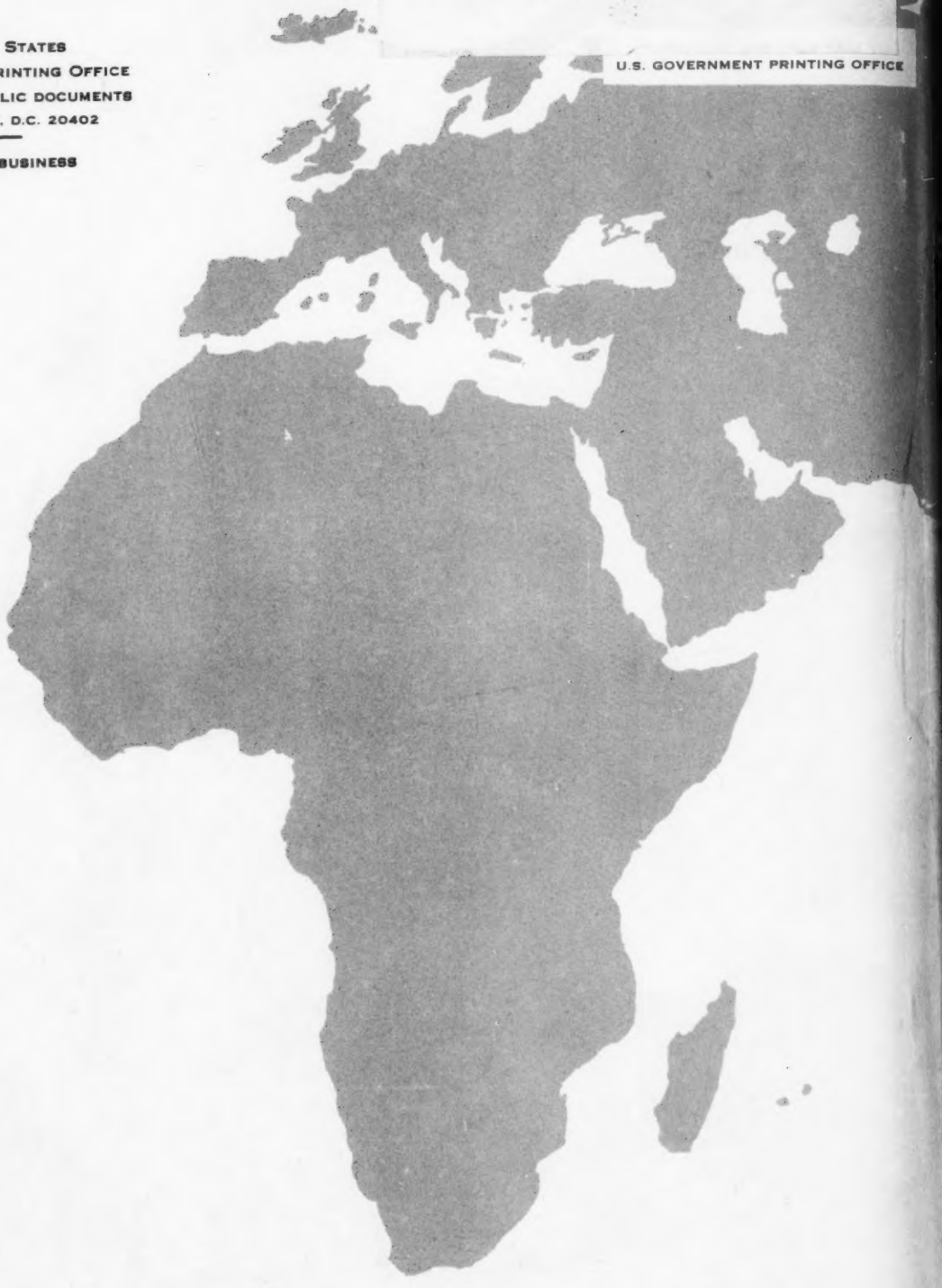
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